

**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No.

**Date:** 08/04/2015

Direction Photo Taken:

North

**Description:** 

Beginning investigation into collapsed adit.



Photo No. 2

**Date:** 08/04/2015

Direction Photo Taken:

North

**Description:** 

Excavated next to DRMS-installed culvert, water muddy from soil disturbance.



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**Project Name:**Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No.

**Date:** 08/04/2015

Direction Photo Taken:

Down

Description:

Seepage from soil next to piping.



Photo No. 4

**Date:** 08/04/2015

Direction Photo Taken:

Down

**Description:** 

Seepage next to the pipe is clear until entering disturbed soil.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No.

**Date:** 08/04/2015

Direction Photo Taken:

North

#### **Description:**

DRMS looking at adit excavation progress.

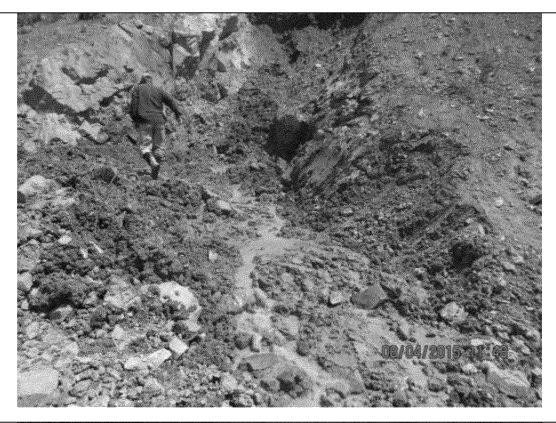


Photo No.

**Date:** 08/04/2015

Direction Photo Taken:

West

#### **Description:**

Water minimally murky from disturbed soil and water entering the North Fork from site.



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**Project Name:** 

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Site Location:

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**Project No.** 0001/1408-01

Photo No. 7

**Date:** 08/04/2015

Direction Photo Taken:

South/Down

Description:

Hay bales installed as filter for sediment in North Fork.



Photo No.

**Date:** 08/04/2015

Direction Photo Taken:

Northwest

**Description:** 

Continuing excavation at the collapsed adit, no solid bedrock found for tunnel support.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No.

**Date:** 08/04/2015

Direction Photo Taken:

Northeast

Description:

First signs of adit, support pillar with lagging.



Photo No. 10

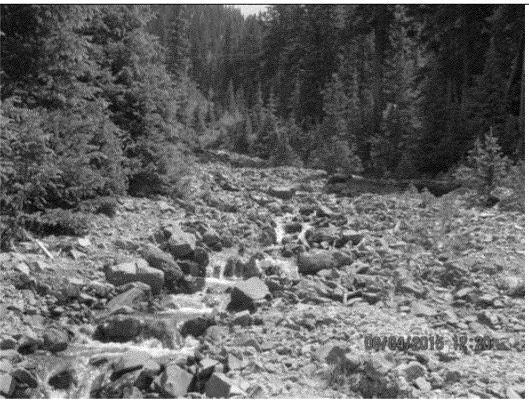
**Date:** 08/04/2015

Direction Photo Taken:

East

Description:

Water of the North Fork just upstream of Cement Creek.



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**Project Name:** 

Gold King Mine

Site Location:

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**Project No.** 0001/1408-01

Photo No. 11

**Date:** 08/04/2015

Direction Photo Taken:

East

**Description:** 

Water of the North Fork just upstream of Cement Creek.



Photo No. 12

**Date:** 08/04/2015

Direction Photo Taken:

North

#### **Description:**

Collapsed supports uncovered above anticipated adit, no sign of bedrock above the adit area.



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**Project Name:**Gold King Mine

Site Location:

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**Project No.** 0001/1408-01

Photo No. 13

**Date:** 08/05/2015

Direction Photo Taken:

North

**Description:** Adit conditions the morning of 8/5.



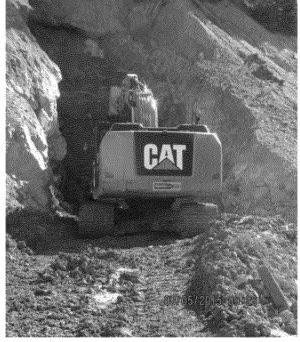
Photo No. 14

**Date:** 08/05/2015

Direction Photo Taken:

Northeast

**Description:**Excavating material above the collapsed adit.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 15

**Date:** 08/05/2015

Direction Photo Taken:

North

Description:

Bedrock found above the anticipated adit.



Photo No. 16

**Date:** 08/05/2015

Direction Photo Taken:

North

**Description:** 

Cleaning out excavated material, small leak.



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**Project Name:**Gold King Mine

Site Location:

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**Project No.** 0001/1408-01

Photo No. 17

**Date:** 08/05/2015

Direction Photo Taken:

North

**Description:** Small leak close up.



Photo No. 18

**Date:** 08/05/2015

Direction Photo Taken:

North

**Description:** Hole starting to give way to flow.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

Project No. 0001/1408-01

**Photo** No. 19

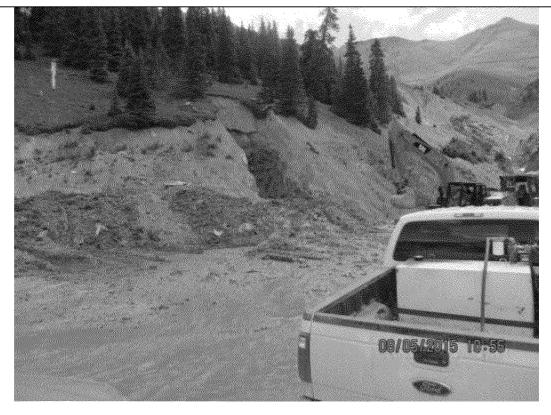
Date: 08/05/2015

**Direction Photo** Taken:

Northeast

**Description:** 

Adit flow increasing.



**Photo** No.

Date: 08/05/2015

20

**Direction Photo** 

Taken:

Northeast

Description:

Water flooding out at increased rate.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 21

**Date:** 08/05/2015

Direction Photo Taken:

West

Description:

Water flowing along access road and across waste dump.



Photo No. 22

**Date:** 08/05/2015

Direction Photo Taken:

Southeast

**Description:** 

Water flowing over the edge of the waste dump and collapsing the edge.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 23

**Date:** 08/05/2015

Direction Photo Taken:

Southwest

**Description:** 

Exit route starting to collapse



Photo No. 24

**Date:** 08/05/2015

Direction Photo Taken:

Southeast/Down

Description:

Edge of the tailings dump collapsed, suburban trapped and half submerged in center of photo.



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**Project Name:**Gold King Mine

Site Location:

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**Project No.** 0001/1408-01

Photo No. 25

**Date:** 08/05/2015

Direction Photo Taken:

Northeast

**Description:**Gold King adit exposed.

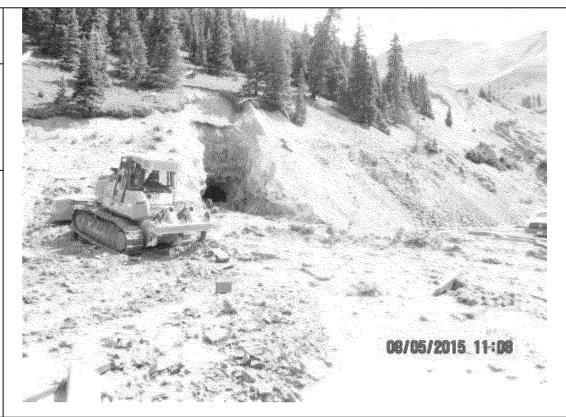


Photo No. 26

**Date:** 08/05/2015

Direction Photo Taken:

Southeast

#### **Description:**

Water flow washing out the existing road. Note Suburban in left side of photo.



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**Project Name:** 

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Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 27

**Date:** 08/05/2015

Direction Photo Taken:

North

Description:

Exposed adit, roughly 10 feet wide by 15 feet high.

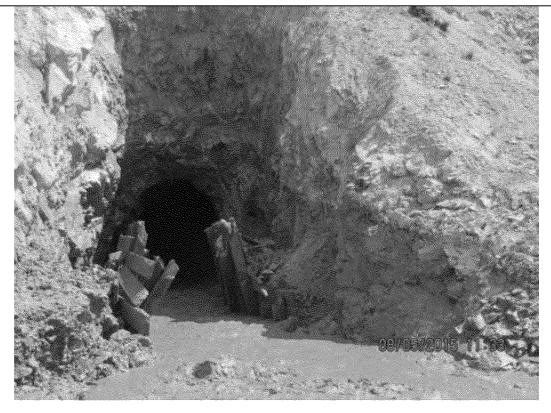


Photo No. 28

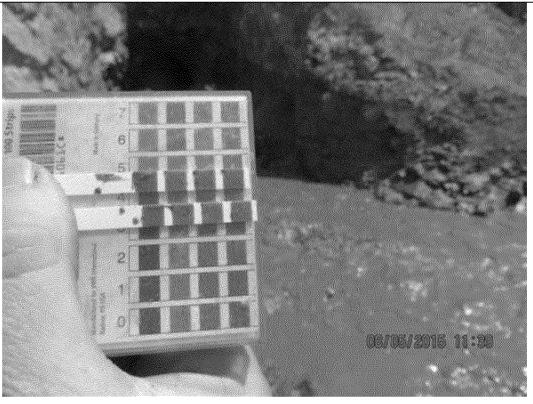
**Date:** 08/05/2015

Direction Photo Taken:

North

**Description:** 

pH of discharge water is approximately 4 to 4.5.



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**Project Name:** 

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Site Location:

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Photo No. 29

**Date:** 08/05/2015

Direction Photo Taken:

Northeast

**Description:** 

Excavator redirecting water into existing half-pipe channel.

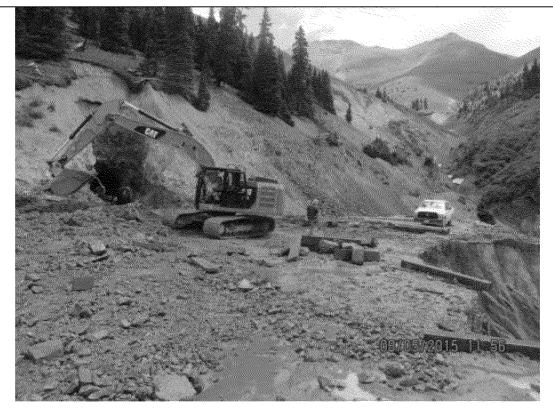


Photo No. 30

**Date:** 08/05/2015

Direction Photo Taken:

Southeast/Down

**Description:** 

Collapsed portion of waste dump and road wash out.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 31

**Date:** 08/05/2015

Direction Photo Taken:

Northeast

**Description:**Adit area after regrading.

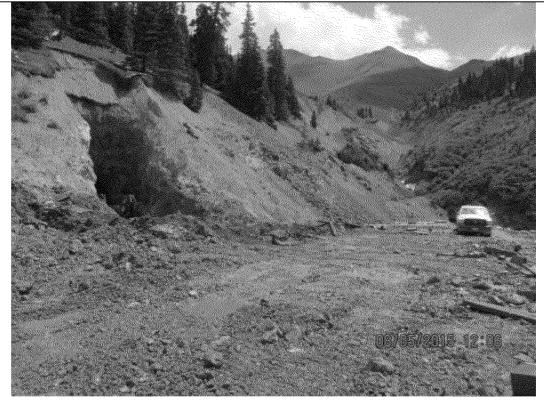


Photo No. 32

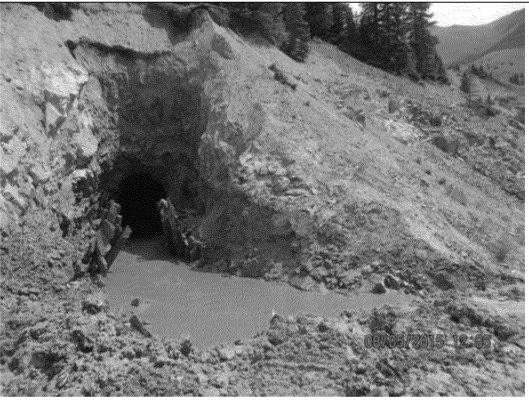
**Date:** 08/05/2015

Direction Photo Taken:

North

Description:

Exposed adit and redirected flow, flow is beginning to subside.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No.

**Date:** 08/05/2015

Direction Photo Taken:

East

Description:

Redirected flow into existing half culvert channel.

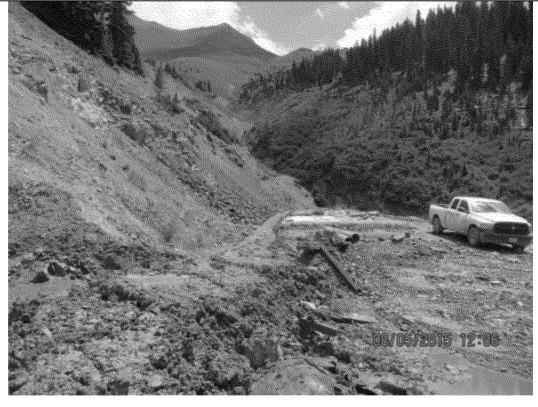


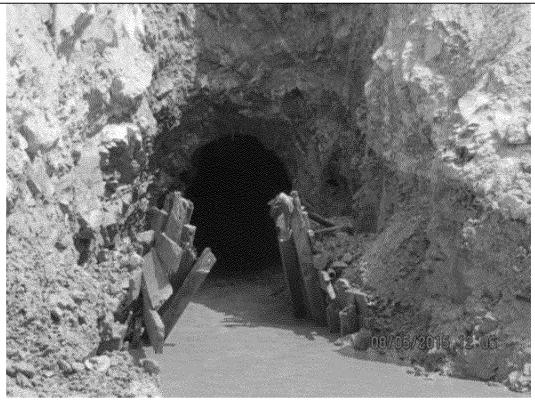
Photo No. 34

**Date:** 08/05/2015

Direction Photo Taken:

North

**Description:** Closeup of adit.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 35

**Date:** 08/05/2015

Direction Photo Taken:

West

### Description:

Excavator beginning work to secure safe exit route for equipment, vehicles, and personnel.

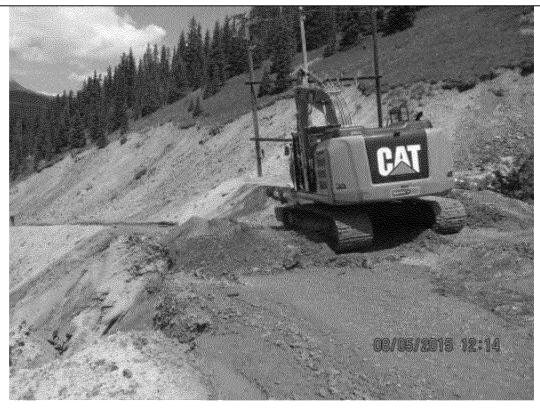


Photo No. 36

**Date:** 08/05/2015

Direction Photo Taken:

East

#### **Description:**

Existing flow channel at maximum capacity.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 37

**Date:** 08/05/2015

Direction Photo Taken:

Southwest/Down

# **Description:**

Excavator progress on fixing access road to create a safe exit route.



Photo No. 38

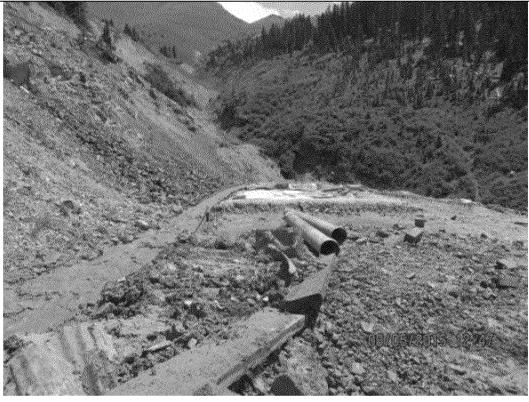
**Date:** 08/05/2015

Direction Photo Taken:

East

**Description:** 

Existing culvert flows subsiding minimally.



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**Project Name:** 

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Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 39

**Date:** 08/05/2015

Direction Photo Taken:

North

### Description:

No changes visible in adit structure or supports. Sloughing of materials inside the mine can be heard.

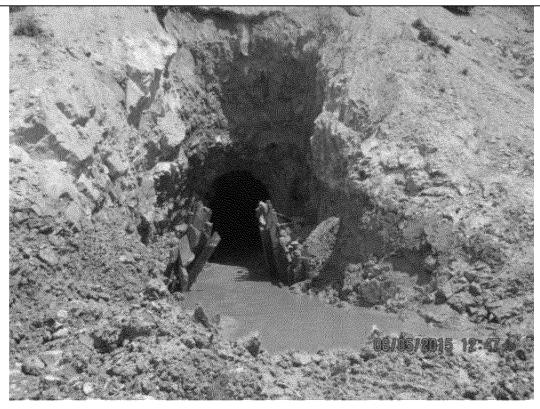


Photo No. 40

**Date:** 08/05/2015

Direction Photo Taken:

South/Down

**Description:** 

Excavator progresses to washed out North Fork crossing.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 41

**Date:** 08/05/2015

Direction Photo Taken:

Southwest/Down

#### Description:

Noted visitor to the site, unknown person, walked up to excavator at North Fork crossing and then back to vehicle.



Photo No.

**Date:** 08/05/2015

42

06/05/2013

Direction Photo Taken:

Southwest/Down

**Description:** Visitor leaving.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 43

**Date:** 08/05/2015

Direction Photo Taken:

South/Down

Description:

Excavator continues to fix access road.
Continued high flow is slowing progress.



Photo No. 44

**Date:** 08/05/2015

Direction Photo Taken:

East

Description:

Half culvert flow continues to subside.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 45

**Date:** 08/05/2015

Direction Photo Taken:

North

### Description:

Water levels lowering at adit entrance, no visible changes to structure.

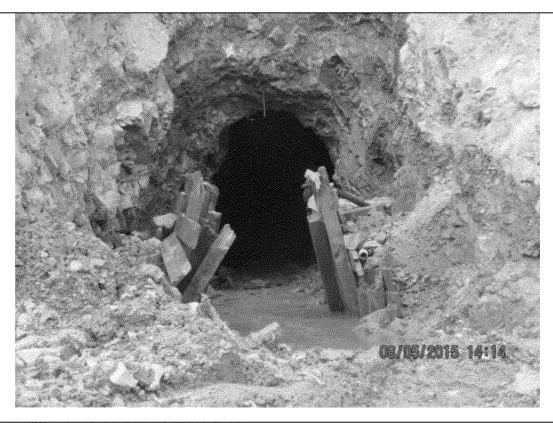


Photo No. 46

**Date:** 08/05/2015

Direction Photo Taken:

West

#### Description:

Flight for life Helicopter coming up the valley to pick up a person who crashed a vehicle on Corkscrew Pass, not related to this event.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 47

**Date:** 08/05/2015

Direction Photo Taken:

Southwest

**Description:** 

Close up of Flight for Life.



Photo No. 48

**Date:** 08/05/2015

Direction Photo Taken:

Northeast

Description:

Flow path from adit, water flow appears to have stabilized around 1400.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. 49

**Date:** 08/05/2015

Direction Photo Taken:

North

Description:

pH measured at approximately 4.5.



Photo No. **50** 

**Date:** 08/05/2015

Direction Photo Taken:

Southwest/Down

Description:

DRMS arrives back on site, had visited the site around 0930 to check on progress of investigation, left approximately 1030, prior to blowout.



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**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. **51** 

**Date:** 08/05/2015

Direction Photo Taken:

North

### Description:

Looking up from the toe of the Gold King waste dump directly south of the adit.

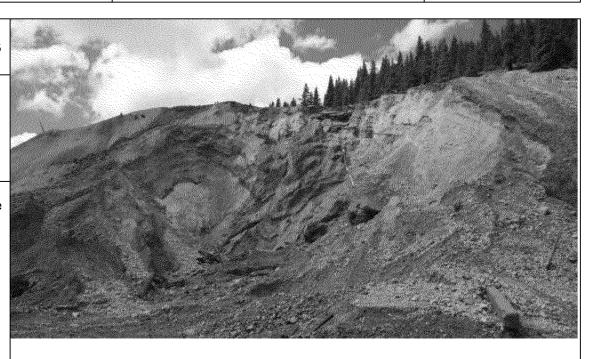


Photo No. **52** 

**Date:** 08/05/2015

Direction Photo Taken:

Northeast

**Description:** 

Gold King Mine tailings dump after water discharge.





**Project Name:** 

Gold King Mine

Site Location:

Silverton, San Juan County, Colorado

**Project No.** 0001/1408-01

Photo No. **53** 

**Date:** 08/05/2015

Direction Photo Taken:

East

### Description:

Looking east across Cement Creek from County Road 10 to excavator fixing County Road 52 at North Fork crossing just south of Red and Bonita Mine.

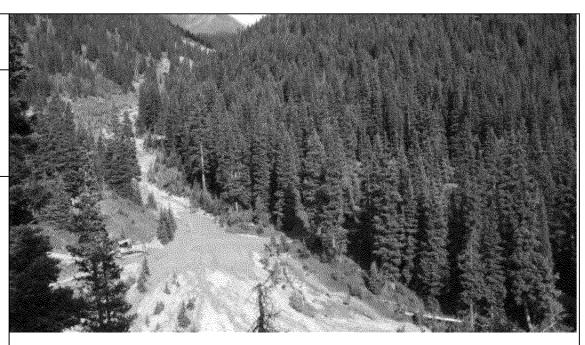


Photo No. **54** 

**Date:** 08/05/2015

Direction Photo Taken:

East

#### **Description:**

Cement Creek crossing at Gladstone.





Project Name:Site Location:Project No.Gold King MineSilverton, San Juan County, Colorado0001/1408-01